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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,209	07/18/2003	Yaron Elboim	ITL.0973US (P16173)	2849
7590	05/18/2005			EXAMINER
Timothy N. Trop TROP, PRUNER & HU, P.C. STE 100 8554 KATY FWY HOUSTON, TX 77024-1841			DALEY, CHRISTOPHER ANTHONY	
			ART UNIT	PAPER NUMBER
			2111	
DATE MAILED: 05/18/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/623,209	ELBOIM ET AL.	
	Examiner	Art Unit	
	Christopher A. Daley	2111	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 18 July 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-27 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 18 July 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

1. Claims 1 – 27 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1 – 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Vila et al (US6654824) herein after Vila.

4. As to claims 1,7,13, and 21, Vila discloses a method, article, apparatus, and system comprising:

A processor-based device (Vila teaches in figure 14 of a system comprising a processor, deskew controller 62, that aligns signal timing that are derived from multi channel links)

A bridge to direct data receiver from processor-based device (Vila teaches of a controller as illustrated in figure 14, which inherently comprises a bridge mechanism to couple the plurality of deskew buffers (61a- 61d) to said processor, COL 10, lines 28 –

41. Figure 3 also illustrates a bridge in the embodiment of a mux 33 that performs said function)

A storage coupled to the processor-based device storing instructions that if executed, enable the processor base device (Vila teaches of the deskew controller that inherently comprises a storage element that would facilitate the execution of deskewing steps of the (deskewing controller 62 of figure 14) as illustrated in figure 10)

delivering first data from a first position in a first serial buffer having a receiving end to receive the first data and a delivering end opposite the receiving end; (Vila teaches in figure 6 , first data in lane 0 that first serial buffer 54a of figure 5 and delivering said data to receiving end RCV 56a)

and delivering second data from a second position in a second serial buffer having a receiving end to receive the second data and a delivering end opposite the receiving end, (Vila teaches in figure 6 of delivering data from a second position, lane 1. The data is delivered on system illustrated in figure 5. Buffer 54b on serial transmission line 55b to receiving end, 56b)

and the first position relative to the delivering end of the first serial buffer is different than the second position relative to the delivering end of the second serial buffer. (Vila teaches in figure 6 the difference in delivery time between lane0 and lane 1, with lane 1 data being one time cycle late in comparison to lane 0, thus illustrating the skew issue, COL. 6, lines 15 – 24).

5. As to claims 2 and 8, 14, and 23 Vila discloses the method, article, and apparatus, and system including delivering the first data from the first position in the first serial buffer having a number of elements that exceeds a maximum lane-to-lane skew. (Vila teaches of having a threshold for the data buffer that flags the condition when the maximum skew is exceeded, COL. 8, lines 1 – 7).

6. As to claims 3, 9, 15, and 24, Vila discloses the method, article, apparatus, and system including delivering the first data from the first position in the first serial buffer having eight elements. (Vila teaches in figure 3 of a lane comprising of eight elements, (0-7), COL. 4, lines 55 – 56).

7. As to claims 4 and 10, and 25 Vila discloses the method, article, and apparatus further including locating a first element in the first serial buffer and thereafter allowing X B*E bits to proceed through the first serial buffer before delivering the first data, wherein B equals a number of bits capable of being stored in an element, and E equals a number of elements in the first serial buffer. (Vila teaches in figure 9 of having two pointers, R, and W. Vila teaches of writing into buffer element by the B*E where buffer is in the embodiment of a FIFO. The READ pointer would be set and triggered at the appropriate time, COL. 7, lines 10 - 35).

8. As to claims 5 and 11, 17, and 26 Vila discloses the method, article, and apparatus, and system further including determining a location of a first element in the

first serial buffer, basing the first position on the location of the first element in the first serial buffer, determining a location of a second element in the second serial buffer, and basing the second position on the location of the second element in the second serial buffer. (Vila teaches such assignment in COL. 4, lines 60 – 67, and figure 3).

9. As to claims 6 and 12, 19, and 27, Vila discloses the method, article, apparatus, and system further including locating a first element in the first serial buffer, and locating a second element in the second serial buffer, independently. (Vila teaches that the data stream may comprise of bits, which would make for independence of data origin, COL. 4, lines 55 – 56).

10. As to claims 20 and 21, Vila discloses the apparatus of claim 13, wherein the apparatus is an Ethernet controller and InfiniBand. (Vila teaches of supporting said communication system, COL. Lines 30 – 44).

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Daley whose telephone number is 571 272 3625. The examiner can normally be reached on 9 am. - 4p m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571 272 3632. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CAD
5/15/2005

(CH)


TIM VO
PRIMARY EXAMINER